

# Safety data sheet

Page: 1/12

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

## 1. Identification

### Product identifier

## **KC-Trockenperlen® ORANGE CHAMELEON 1030**

Chemical name: Aluminatesilicate

CAS Number: 1327-36-2

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Solid material for drying of liquids and gases

Recommended use: Desiccant, adsorbent

### Details of the supplier of the safety data sheet

Company:

TROPACK Packmittel GmbH

Vor dem Polstück 8

35633 Lahnau

Germany

Telephone: +49 6441-21089-0

E-mail address: [info@tropack.de](mailto:info@tropack.de)

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

---

## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

---

Safety data sheet according to UN GHS 4th rev.  
Date / Revised: 05.01.2018  
Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

Version: 2.1

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

No need for classification according to GHS criteria for this product.

### **Label elements**

#### Globally Harmonized System (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

### **Other hazards**

#### According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered.

---

## **3. Composition/Information on Ingredients**

### **Substances**

#### Chemical nature

adsorbent  
Aluminatesilicate (Content (W/W):  $\geq 98\%$  -  $\leq 100\%$ )  
CAS Number: 1327-36-2  
EC-Number: 215-475-1

### **Mixtures**

Not applicable

---

## **4. First-Aid Measures**

### **Description of first aid measures**

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Safety data sheet according to UN GHS 4th rev.  
Date / Revised: 05.01.2018  
Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

Version: 2.1

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

Rinse mouth and then drink plenty of water.

### **Most important symptoms and effects, both acute and delayed**

Symptoms: No significant reaction of the human body to the product known.

### **Indication of any immediate medical attention and special treatment needed**

Treatment: Symptomatic treatment (decontamination, vital functions).

---

## **5. Fire-Fighting Measures**

### **Extinguishing media**

Additional information:

Use extinguishing measures to suit surroundings.

### **Special hazards arising from the substance or mixture**

No particular hazards known.

### **Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

---

## **6. Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

Do not breathe dust. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, section 8.

### **Environmental precautions**

Discharge into the environment must be avoided.

### **Methods and material for containment and cleaning up**

Avoid raising dust. Dampen, pick up mechanically and dispose of. Correctly dispose of recovered product immediately. Reclaim for processing if possible.

---

## **7. Handling and Storage**

### **Precautions for safe handling**

Avoid dust formation. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Provide suitable exhaust ventilation at the processing machines.

---

Safety data sheet according to UN GHS 4th rev.  
Date / Revised: 05.01.2018  
Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

Version: 2.1

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

---

Protection against fire and explosion:  
The substance/product is non-combustible.

**Conditions for safe storage, including any incompatibilities**

Keep away from water.

Suitable materials for containers: Carbon steel (Iron), Low density polyethylene (LDPE)  
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

---

**8. Exposure Controls/Personal Protection****Control parameters**

Components with occupational exposure limits

1327-36-2: Aluminatesilicate

**Exposure controls**

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact  
(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures

Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

---

**9. Physical and Chemical Properties****Information on basic physical and chemical properties**

Form:	beads
Colour:	beige to brown
Odour:	odourless

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

Odour threshold:	not determined	
pH value:	4 - 8 (100 g/kg) (as suspension)	
Melting point:	> 550 °C	
Boiling point:	(1.013 hPa) not applicable, solid with a melting temperature over 300 °C	
Flash point:	not applicable, the product is a solid	
Evaporation rate:	not applicable	
Flammability:	not highly flammable	(other)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	not applicable	
Vapour pressure:	not applicable, solid with a melting temperature over 300 °C	
Relative vapour density (air):	not applicable	
Solubility in water:	The substance / product decomposes therefore not determined.	(OECD Guideline 105)
Partitioning coefficient n-octanol/water (log Kow):	The value has not been determined because the substance is inorganic.	
Self ignition:	not self-igniting	Test type: Self-ignition at high temperatures.
	Based on its structural properties the product is not classified as self- igniting.	Test type: Spontaneous self- ignition at room-temperature.
Thermal decomposition:	not determined	
Viscosity, dynamic:	not applicable, the product is a solid	
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

### Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Bulk density:	400 - 900 kg/m <sup>3</sup> (20 °C) Literature data.
pKA:	not applicable, not soluble
Surface tension:	Based on chemical structure, surface activity is not to be expected.

---

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	Corrosive effects to metal are not anticipated.	
Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.

### Chemical stability

The product is chemically stable.

### Possibility of hazardous reactions

Addition of water leads to increase in temperature.

The product is chemically stable.

### Conditions to avoid

Avoid dust formation. Avoid deposition of dust.

### Incompatible materials

Substances to avoid:  
water

### Hazardous decomposition products

Hazardous decomposition products:  
No hazardous decomposition products known.

---

## 11. Toxicological Information

### Information on toxicological effects

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 423)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LC50 rat (by inhalation): > 2,07 mg/l 4 h (other)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. An aerosol was tested.

LD50 rabbit (dermal): > 5.000 mg/kg (other)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Germ cell mutagenicity

Assessment of mutagenicity:

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Carcinogenicity

Assessment of carcinogenicity:

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The substance may cause damage to the lung after repeated inhalation of high doses. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The data on toxicology refer to the active ingredient.

#### Aspiration hazard

not applicable

#### Other relevant toxicity information

The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

---

## 12. Ecological Information

### Toxicity



---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

---

**Assessment of aquatic toxicity:**

There is a high probability that the product is not acutely harmful to aquatic organisms.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Toxicity to fish:**

LC0 (96 h) 10.000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Aquatic invertebrates:**

EC50 (48 h) > 10.000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Aquatic plants:**

EC50 (72 h) 2.500 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Microorganisms/Effect on activated sludge:**

Study scientifically not justified.

**Chronic toxicity to fish:**

Study scientifically not justified.

**Chronic toxicity to aquatic invertebrates:**

No observed effect concentration (21 d) 1.000 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Assessment of terrestrial toxicity:**

Study scientifically not justified.

## **Persistence and degradability**

**Assessment biodegradation and elimination (H<sub>2</sub>O):**

Inorganic product which cannot be eliminated from water by biological purification processes.

Study does not need to be conducted.

**Assessment of stability in water:**

Study does not need to be conducted.

## **Bioaccumulative potential**

**Assessment bioaccumulation potential:**

Accumulation in organisms is not to be expected.

**Bioaccumulation potential:**

Study does not need to be conducted.

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

Version: 2.1

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

### **Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: Study scientifically not justified.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): PBT assessment does not apply. Not applicable for inorganic substances.

### **Other adverse effects**

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### **Additional information**

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

---

## **13. Disposal Considerations**

### **Waste treatment methods**

Dispose of in accordance with national, state and local regulations.

Contact specialized companies about recycling.

Contaminated packaging:

Dispose of in accordance with national, state and local regulations.

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

---

## **14. Transport Information**

### **Land transport**

ADR

UN number:

UN proper shipping name:

Not classified as a dangerous good under transport regulations

Not applicable

Not applicable

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### RID

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### Inland waterway transport

##### ADN

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### Transport in inland waterway vessel

Not evaluated

#### Sea transport

##### IMDG

Not classified as a dangerous good under transport regulations  
UN number: Not applicable  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### Air transport

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 05.01.2018

Version: 2.1

Product: **KC-Trockenperlen® ORANGE CHAMELEON 1030**

(ID no. 30318148/SDS\_GEN\_00/EN)

Date of print 14.03.2018

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

---

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable

---

## 16. Other Information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

---

Vertical lines in the left hand margin indicate an amendment from the previous version.